



equations, and equations of higher order; series, sequences, and progressions.

- c. Trigonometry (2 sessions). Trigonometric functions; Identities and manipulative techniques; spherical trigonometry.
- d. Analytical Geometry (2 sessions). Coordinate systems; equations and graphs of lines, conic sections, and other curves.
- e. Calculus (5 sessions). Concepts and definitions; derivatives and differentiation - applications such as velocities, accelerations, and maximum and minimum problems; integrals and integration - applications such as work, area, and volume; use of formulas and tables.
- f. Matrices and vectors (5 sessions). Theory; manipulative techniques.

Mathematics Seminar for Scientists and Engineers is designed to prepare students to become currently qualified for enrollment in specific credit courses offered by local universities. A student might anticipate a schedule similar to the following:

- a. Fall & Winter 1963 - Mathematics Seminar for Scientists and Engineers.
- b. Spring 1964 - Calculus II and III (continuation of non-credit seminar outlined above).
- c. Fall 1964 - Individual enrollment in GW University Mathematics 111; Mathematics for Engineers and Physicists or equivalent (3 hours credit).
- d. Spring 1965 - GW University Mathematics 112; (continuation of Mathematics 111 -- 3 hours credit).

C-O-N-F-I-D-E-N-T-I-A-L